

Patent claims

1. Extended textile reinforcement layer for hoses, tubes and similar extended objects, that comprise at least one inner layer, the textile reinforcement layer and one outer layer, that is bonded to the textile reinforcement layer and the inner layer, characterized by the fact that the textile layer consists of a stiffening material, that at normal ambient temperature will act as a stiffener in a direction different from the longitudinal axis of the body to be stiffened, particularly in a substantially perpendicular direction to the longitudinal axis of the body to be stiffened.
2. Reinforcement layer in accordance with claim 1, characterized by the fact that the stiffening material loses its stiffness at a higher temperature which is harmless for the reinforcement layer.
3. Reinforcement layer in accordance with claim 1 or 2, characterized by the fact that the stiffening consists of individual threads or yarns.
4. Reinforcement layer in accordance with claim 1 or 2, characterized by the fact that the stiffening itself is a textile product, for example a fabric, knitted fabric, knit, double knit or a fleece.
5. Reinforcement layer in accordance with claim 1 or 2, characterized by the fact that the stiffening comprises at least one foil.

characterized by the fact that the foil consists of thermo-plastic material, heat-cured/synthetic material or metal.

7. Reinforcement layer in accordance with claim 5 or 6,
characterized by the fact that the foil is extruded together with the textile reinforcement layer.
8. Reinforcement layer in accordance with one of claims 3 through 6,
characterized by the fact that the stiffening forms a textile bond with the reinforcement layer.
9. Reinforcement layer in accordance with claim 1 or 2,
characterized by the fact that the stiffening is a chemical material, which is absorbed by the reinforcement layer.
10. Reinforcement layer in accordance with one of the previous claims,
characterized by the fact that the stiffening material is a polymer or copolymer.
11. Reinforcement layer in accordance with one of the previous claims,
characterized by the fact that the material of the stiffener is the matrix material or a related material of the object to be reinforced.
12. Reinforcement layer in accordance with one of the previous claims,
characterized by the fact that the melting point of the stiffening material is lower than the melting point of the reinforcement layer material.

knit, double knit or a fleece.

14. Hose, tube or similar extended objects, characterized by the presence of one or more reinforcement layers according to the aforementioned claims, in which the stiffening of the reinforcement layer(s) has a stiffening effect at normal ambient temperature in a direction that deviates from the longitudinal axis of the object to be reinforced, especially in a substantially perpendicular direction to the longitudinal axis of the object to be reinforced.